

**PRODUCT TECHNICAL DOSSIER**

**CHONDROITIN SULPHATE PORCINE 90%**

**Product Code:**

P0325

**Raw Material Full Name:**

Chondroitin Sulphate porcine 90%

**Raw Material Full Botanical/Chemical/Latin/Trade Name/Synonyms:**

Chondroitin sulphate

**FEMAS Status:**

Assured

**This material is Food Grade:**

Yes

**Limit/Range/Specification:**

90% - 105% (CPC)

**Identification Method:**

A: Infrared Absorption Spectrophotometry USP39<197K>

B: A solution containing 0.5g in 10 mL of water meets the requirements of the test for Sodium USP39<191>

**Optical Rotation:**

-20° to -30°

**Protein:**

Max 6%

**Chlorides:**

Max 1%

**Sulphates:**

Max 0.24%

**Nitrogen:**

2.5% - 3.8%



**pH:**

5.5 – 7.5

**Loss on Drying:**

Max 10.0%

**Residue on Ignition:**

20.0% - 30.0%

**Country of Origin:**

Thailand

**Country of Origin of the Manufacture:**

China & Thailand

**Base Source/Start Material:**

Porcine Cartilage

**Origin of Product – Synthetic, Plant, Mineral, Animal, Fish or Fermented:**

Animal

**Species of animal or fish used:**

Porcine

**Shelf Life from Date of Manufacture:**

Minimum 2 Years (Batch Specific)

**Appearance:**

Free flowing powder

**Colour:**

White/ Off white

**Flavour/Taste:**

Characteristic

**Odour:**

Characteristic



### **Microbiological Test**

**Total Viable Count:**

Max 10,000cfu/g

**Yeast & Moulds:**

Max 100cfu/g

**E. coli:**

Negative in 25g

**Salmonella:**

Negative in 25g

### **Heavy Metals:**

**Heavy Metals:**

Max 20ppm

**Arsenic (As):**

Max 1ppm

**Pharmacopeia Standard Used:**

USP

There are no nuts in this recipe and are no nuts on site, however we cannot guarantee that the raw materials entering the site are nut free.



INTOLERANCE DATA			
			If No please give details
Free from All Animal Products (Beef, Pork, Poultry or other)		NO	Porcine Cartilage
Free from Bovine Products or Derivatives by using hormones to increase milk yield in cows	YES		
Free from Bone Meal	YES		
Free from Peanuts and Peanut Derivatives (including possible cross contamination)	YES		
Free from other Nut and Nut Derivatives	YES		
Free from Nut Derived Oil	YES		
Free from Sesame Seeds and Sesame Seed Derivatives	YES		
Free from Poppy Seeds and Poppy Seed Derivatives	YES		
Free from Sunflower Seeds and Sunflower Seeds Derivatives	YES		
Free from other Seeds and Seed Derivatives	YES		
Free from Milk and Milk Derivatives (including lactose)	YES		
Free from Egg and Egg Derivatives	YES		
Free from Cereals containing Gluten (wheat / rye / oats / barley/ spelt/ kamut or their hybridised strains) and Derivatives	YES		
Free from Soya and Soya Derivatives	YES		
Free from Maize and Maize Derivatives	YES		
Free from Corn and Corn Derivatives	YES		
Free from Lupin and Lupin Derivatives	YES		
Free from Yeast and Yeast Derivatives	YES		
Free from Cotton Seeds (Flour) and Cotton Seed Derivatives	YES		
Free from Rice and Rice Derivatives	YES		
Free from Mustard and Mustard Derivatives	YES		
Free from Celery or Celery Derivatives	YES		
Free from Celeriac or Celeriac Derivatives	YES		
Free from Fruit and Fruit Derivatives	YES		
Free from Vegetable and Vegetable Derivatives	YES		
Free from Carrot and Carrot Derivatives	YES		
Free from Legumes / Pulses	YES		
Free from Fish and Fish Derivatives	YES		
Free from Crustaceans / Molluscs and their Derivatives	YES		
Free from Additives	YES		
Free from Added Salt	YES		
Free from Added Sugar	YES		
Free from Antioxidants	YES		
Free from Artificial Glutamates	YES		
Free from Aspartame	YES		
Free from Azo and Coal Tar Dyes	YES		
Free from Benzoates (E210 / E219)	YES		
Free from BHA / BHT (E320 / E321)	YES		
Free from Caffeine	YES		
Free from Cinnamon	YES		
Free from Cocoa	YES		
Free from Colours (Artificial / Nature Identical / Natural / Smoked)	YES		
Free from Dextrose	YES		
Free from Dioxins	YES		
Free from Ethanol		NO	Ethanol is used in production



INTOLERANCE DATA			
		If No please give details	
Free from Ethylene Oxide	YES		
Free from Flavourings (Artificial / Nature Identical / Natural / Smoked)	YES		
Free from Garlic	YES		
Free from Gelatine	YES		
Free from Glutamates (E620 to E625)	YES		
Free from Histamine	YES		
Free from Hickory	YES		
Free from Honey	YES		
Free from Lactose	YES		
Free from Latex	YES		
Free from MSG (Added and Naturally Occurring E621)	YES		
Free from Nucleotides (E627, E630, E631, E635)	YES		
Free from Polyols	YES		
Free from Preservatives	YES		
Free from Starch Products (Including Maltodextrin)	YES		
Free from Sorbic Acid (E200, E203)	YES		
Free from Sulphur Dioxide and Sulphites at levels above 10mg/kg or 10mg/litre expressed as SO <sup>2</sup>	YES		
Free from Sulphites (E220, E228)	YES		
Free from Sweeteners	YES		
Free from Vannillin	YES		
Suitable for Diabetics	YES		
Suitable for Coeliacs	YES		
Suitable for Ovo-Lacto Vegetarians		NO	Porcine
Suitable for Vegans		NO	Porcine
Kosher Certified		NO	Not Certified
Halal Certified		NO	Not Certified



**CONFIRMATION OF BSE/TSE STATUS**

This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathies (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE.

This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.

**CONFIRMATION OF GM STATUS**

This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under regulations 1829/2003/EC and 1830/2003/EC.

**CONFIRMATION OF NON IRRADIATION STATUS**

This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives 1999/2/EC and 1000/3/EC.

**CONFIRMATION OF NANDROLONE STATUS**

This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.

**CONFIRMATION OF IOC PRODUCT STATUS**

This is to certify that this product, whole or in part, has not come into contact with any product/s, which is banned by the IOC (International Olympics Committee).

**CONFIRMATION OF ANIMAL TESTING STATUS**

This is to certify that all the products sold by Cambridge Commodities have not been tested on animals in any part of its manufacture in accordance with regulation 86/609/EEC.

**CONFIRMATION OF PESTICIDES STATUS**

This is to certify that the above-mentioned product complies with the regulation (EC) No.396/2005 of 23<sup>rd</sup> February 2005 and commission Regulation (EU) No. 559/2011 of 7<sup>th</sup> June 2011 amending annexes II and III of the above Regulation.

**CONFIRMATION OF NANOPARTICLE STATUS**

This is to certify that unless otherwise stated, the above-mentioned product is free of nanoparticles. Commission Recommendation 2011/696/EU, defines as follows: "'Nanomaterial' means a natural, incidental or manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm - 100 nm".



## MATERIAL SAFETY DATA SHEET

### Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

Product name: Chondroitin sulphate Porcine  
Product code: P0325  
Company: Cambridge Commodities Limited  
Lancaster Way, Ely, Cambridgeshire, CB6 3NX  
Tel: 01353 667258. Email: qa@c-c-l.com

### Section 2. Hazards Identification

Potential Acute Hazards Very hazardous in the case of eye contact(irritant) Hazardous in the case of skin contact (irritant), of ingestion and of inhalation.  
Inflammation of the eye is Characterized by redness watering, and itching.

Potential Chronic Health Effects Carcinogenic Effects: Not available  
Mutagenic Effects: Not Available  
Teratogenic effects: Not available  
Developmental Effects: Not Available  
Repeated or prolonged effects is not known to aggravate Medical conditions

### Section 3. Composition/Information on Ingredients

Components	% in Product	CAS Number	Formula	EINECS Number
Chondroitin sulphate porcine	100%	N/A	N/A	N/A

### Section 4. Emergency and First Aid Measures

Eyes Check for and remove any contact lenses. Do not use any eye ointment. Seek Medical attention

Skin After contact with skin, wash immediately with plenty of water.  
Gently  
And thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, crease and groin. Cover the irritated skin with an emollient. If

irritation persists, seek medical attention. Wash contaminated clothing before reusing.

#### Serious Skin Contact

Wash with disinfectant soap and cover contaminated area with antibacterial cream seek medical attention.

#### Swallowing

Do NOT induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband if the victim is not breathing, perform mouth to mouth resuscitation and seek medical attention.

#### Inhalation

Allow the victim to rest in a well-ventilated area. Seek medical attention

### Section 5. Fire-fighting measures

#### Flammability of the product

May be combustible at a high temperature.

#### Extinguishing Media

Small fire: Use dry chemical powder.  
Large fire: Use water spray, foam or fog. Do NOT use water jet.

#### Fire Fighting Instructions

Wear a self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode. Use chemical resistant personal protective equipment.

### Section 6. Accidental Release Measures

#### Small spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water onto the contaminated surface and dispose of according to the local and regional authority requirements.

#### Large spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

### Section 7. Handling and Storage

#### Precautions

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, Evaporate the residue under a fume hood.



Ground all equipment containing material. Do not ingest. Do not breathe in dust. In case of insufficient ventilation. Wear suitable respiratory equipment if ingested, seek medical advice immediately and show the container or label. Avoid contact with skin and eyes

#### Storage

Keep containers tightly closed in a cool and dry place for quality reasons. Protect from humidity and light. Keep well ventilated.

### Section 8. Exposure Controls/Personal Protection

#### Engineering Measures

Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below the recommended limits. If user operations generate dust, fume or mist, use ventilation to keep exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Personal Protection

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.

#### Personal protection in case of Large spill

Splash goggles. Full Suit. Dust respirator, boots, gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

### Section 9 Physical and Chemical Properties

#### Physical state

Free flowing powder

#### Colour

White/Off white

#### Odour

Characteristic

#### Solubility

Soluble in water

### Section 10 Stability and Reactivity

#### Chemical Stability

Stable under conditions mentioned in section 7. May decompose when exposed to light.

Hazardous Polymerisation	Product will not undergo hazardous polymerisation.
Incompatibility	Strong oxidising agents.
Hazardous Decomposition Products	May form Carbon Dioxide, Carbon Monoxide and Nitrogen oxides.

### Section 11 Toxicological Information

Routes of entry	Eye contact, inhalation, ingestion.
Toxicity to animals	Acute oral toxicity (LD50) :>1000mg/kg(mouse)
Toxic effects on humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

### Section 12 Ecological Information

Eco-toxicity	No Data Available
Air pollution	Observe local/national regulations
Products of biodegradation	Possibly hazardous short term degradation products are not likely however long term degradation products may arise.
Toxicity	The products of degradation are more toxic.

### Section 13 Disposal Considerations

Waste from residues	Dispose of in accordance with all applicable local and national regulations.
---------------------	--

### Section 14 Transport Information

Transport classification	Not classified as dangerous for any mode of UK or International transport.
--------------------------	--

### Section 15 Regulatory Information

Federal and state regulations	TSCA 8 (b) Inventory: No products were found.
Other Regulations:	OSHA: hazardous by Definition of hazard communication standard (29 CFR 1910.1200)
Other classifications	WHMIS (Canada): CLASS D-2b: Material causing other toxic effects (toxic)

DSCL(EEC): R38 - Irritating to skin

R41- Risk of serious damage to eyes.

HMIS (U.S.A):

Health hazard: 2

Fire hazard:1

Reactivity:0

Protective equipment

Gloves, lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles

## Section 16 Other Information

This advice is given by Cambridge Commodities Ltd who accepts no legal liability for it. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Individuals working with chemicals should consider all chemicals to be potentially hazardous even if their individual hazards may be uncharacterised or unknown.

This Information provided in this document is subject to change and the batch specific Certificate of Analysis should always be referenced.


To be used as per local legislation.



## Change History

Version	Change	Customer Notification required Yes / No
1	First Issue	N/A
2	Format Updated and Shelf amended from 3 years to Minimum 2 years (Batch Specific)	Yes
3	FEMAS Status added	No
4	Amended to match suppliers spec	No
5	Added Assay method CPC and FEMAS definition (feed material assurance scheme)	No
6	Added Identification Method: HPLC	No
7	Changed chloride specification from max 0.5% to max 1% to match the parameters set by the supplier.	Yes
8	Changed method of identification from HPLC, added Thailand as a country of manufacture, removed specification for organic volatile impurities.	Yes
9	Removed feed material assurance scheme from FEMAS status.	No

## Document Approval

Originator Job Title	Quality Specialist	Approver Job Title	Assistant Quality Manager
 Shannon McKenna (Nov 24, 2017)		Richard Cecil	












# P0325-Chondroitin Sulphate Porcine-Technical dossier

Adobe Sign Document History

11/24/2017

Created:	11/24/2017
By:	Emma Dane (emma.dane@c-c-l.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA9SXnLAObi-nQHZyxVTKb5I_deE_-68pO

## "P0325-Chondroitin Sulphate Porcine-Technical dossier" History

-  Document uploaded by Emma Dane (emma.dane@c-c-l.com) from Acrobat  
11/24/2017 - 3:04:10 AM PST- IP address: 81.145.42.226
-  Document emailed to Shannon McKenna (shannon.mckenna@c-c-l.com) for signature  
11/24/2017 - 3:05:01 AM PST
-  Document viewed by Shannon McKenna (shannon.mckenna@c-c-l.com)  
11/24/2017 - 3:09:44 AM PST- IP address: 193.118.78.190
-  Document e-signed by Shannon McKenna (shannon.mckenna@c-c-l.com)  
Signature Date: 11/24/2017 - 3:09:59 AM PST - Time Source: server- IP address: 81.145.42.226
-  Document emailed to Richard Cecil (Richard.Cecil@c-c-l.com) for signature  
11/24/2017 - 3:09:59 AM PST
-  Document viewed by Richard Cecil (Richard.Cecil@c-c-l.com)  
11/24/2017 - 4:09:30 AM PST- IP address: 185.122.131.251
-  Document e-signed by Richard Cecil (Richard.Cecil@c-c-l.com)  
Signature Date: 11/24/2017 - 4:09:40 AM PST - Time Source: server- IP address: 81.145.42.226